

Team 4  
CRF Errs Corrected by the STIC Systems Branch

Serial Number: 08/572,027

CRF Processing Date: 2/13/96  
Edited by: *[Signature]*  
Verified by: *[Signature]* (STIC staff)

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically:  
ENTERE

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_.

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:  
\_\_\_\_\_

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:  
\_\_\_\_\_

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:  
\_\_\_\_\_

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:  
\_\_\_\_\_

Deleted extra, invalid, headings used by an applicant, specifically:  
\_\_\_\_\_

Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  
 page numbers throughout text;  other invalid text, such as \_\_\_\_\_.

Inserted mandatory headings, specifically: \_\_\_\_\_

Corrected an obvious error in the response, specifically:  
\_\_\_\_\_

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:  
\_\_\_\_\_

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_

Other:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

*[Signature]*

### **INPUT SET: S8732.raw**

**This Raw Listing contains the General Information Section and up to the first 5 pages.**

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/572,027DATE: 02/13/96  
TIME: 15:44:15

INPUT SET: S8732.raw

47 (A) NAME: Ellinger, Mark S.  
48 (B) REGISTRATION NUMBER: 34,812  
49 (C) REFERENCE/DOCKET NUMBER: A21-535.10  
50  
51 (ix) TELECOMMUNICATION INFORMATION:  
52 (A) TELEPHONE: 612/335-5070  
53 (B) TELEFAX: 612/288-9696  
54  
55 (2) INFORMATION FOR SEQ ID NO:1:  
56  
57 (i) SEQUENCE CHARACTERISTICS:  
58 (A) LENGTH: 1155 base pairs  
59 (B) TYPE: nucleic acid  
60 (C) STRANDEDNESS: single  
61 (D) TOPOLOGY: linear  
62  
63 (ii) MOLECULE TYPE: DNA  
64  
65 (iii) HYPOTHETICAL: NO  
66  
67 (iv) ANTI-SENSE: NO  
68  
69 (vi) ORIGINAL SOURCE:  
70 (A) ORGANISM: Brassica napus  
71  
72 (ix) FEATURE:  
73 (D) OTHER INFORMATION: Wild type D form.  
74  
75  
76 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
77  
78 ATG GGT GCA GGT GGA AGA ATG CAA GTG TCT CCT CCC TCC AAG AAG TCT 48  
79 Met Gly Ala Gly Gly Arg Met Gln Val Ser Pro Pro Ser Lys Lys Ser  
80 1 5 10 15  
81  
82 GAA ACC GAC ACC ATC AAG CGC GTA CCC TGC GAG ACA CCG CCC TTC ACT 96  
83 Glu Thr Asp Thr Ile Lys Arg Val Pro Cys Glu Thr Pro Pro Phe Thr  
84 20 25 30  
85  
86 GTC GGA GAA CTC AAG AAA GCA ATC CCA CCG CAC TGT TTC AAA CGC TCG 144  
87 Val Gly Glu Leu Lys Lys Ala Ile Pro Pro His Cys Phe Lys Arg Ser  
88 35 40 45  
89  
90 ATC CCT CGC TCT TTC TCC TAC CTC ATC TGG GAC ATC ATC ATA GCC TCC 192  
91 Ile Pro Arg Ser Phe Ser Tyr Leu Ile Trp Asp Ile Ile Ala Ser  
92 50 55 60  
93  
94 TGC TTC TAC TAC NTC GCC ACC ACT TAC TTC CCT CTC CTC CCT CAC CCT 240  
95 Cys Phe Tyr Tyr Xaa Ala Thr Thr Tyr Phe Pro Leu Leu Pro His Pro  
96 65 70 75 80  
97  
98 CTC TCC TAC TTC GCC TGG CCT CTC TAC TGG GCC TGC CAA GGG TGC GTC 288  
99 Leu Ser Tyr Phe Ala Trp Pro Leu Tyr Trp Ala Cys Gln Gly Cys Val

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/572,027DATE: 02/13/96  
TIME: 15:44:17

## INPUT SET: S8732.raw

100	85	90	95	
101				
102	CTA ACC GGC GTC TGG GTC ATA GCC CAC GAA TGC GGC CAC CAC GCC TTC			336
103	Leu Thr Gly Val Trp Val Ile Ala His Glu Cys Gly His His Ala Phe			
104	100	105	110	
105				
106	AGC GAC TAC CAG TGG CTT GAC GAC ACC GTC GGT CTC ATC TTC CAC TCC			384
107	Ser Asp Tyr Gln Trp Leu Asp Asp Thr Val Gly Leu Ile Phe His Ser			
108	115	120	125	
109				
110	TTC CTC CTC GTC CCT TAC TTC TCC TGG AAG TAC AGT CAT CGC AGC CAC			432
111	Phe Leu Leu Val Pro Tyr Phe Ser Trp Lys Tyr Ser His Arg Ser His			
112	130	135	140	
113				
114	CAT TCC AAC ACT GGC TCC CTC GAG AGA GAC GAA GTG TTT GTC CCC AAG			480
115	His Ser Asn Thr Gly Ser Leu Glu Arg Asp Glu Val Phe Val Pro Lys			
116	145	150	155	160
117				
118	AAG AAG TCA GAC ATC AAG TGG TAC GGC AAG TAC CTC AAC AAC CCT TTG			528
119	Lys Lys Ser Asp Ile Lys Trp Tyr Gly Lys Tyr Leu Asn Asn Pro Leu			
120	165	170	175	
121				
122	GGA CGC ACC GTG ATG TTA ACG GTT CAG TTC ACT CTC GGC TGG CCG TTG			576
123	Gly Arg Thr Val Met Leu Thr Val Gln Phe Thr Leu Gly Trp Pro Leu			
124	180	185	190	
125				
126	TAC TTA GCC TTC AAC GTC TCG GGA AGA CCT TAC GAC GGC GGC TTC CGT			624
127	Tyr Leu Ala Phe Asn Val Ser Gly Arg Pro Tyr Asp Gly Gly Phe Arg			
128	195	200	205	
129				
130	TGC CAT TTC CAC CCC AAC GCT CCC ATC TAC AAC GAC CGC GAG CGT CTC			672
131	Cys His Phe His Pro Asn Ala Pro Ile Tyr Asn Asp Arg Glu Arg Leu			
132	210	215	220	
133				
134	CAG ATA TAC ATC TCC GAC GCT GGC ATC CTC GCC GTC TGC TAC GGT CTC			720
135	Gln Ile Tyr Ile Ser Asp Ala Gly Ile Leu Ala Val Cys Tyr Gly Leu			
136	225	230	235	240
137				
138	TTC CGT TAC GCC GGC CAG GGA GTG GCC TCG ATG GTC TGC TTC TAC			768
139	Phe Arg Tyr Ala Ala Gly Gln Gly Val Ala Ser Met Val Cys Phe Tyr			
140	245	250	255	
141				
142	GGA GTC CCG CTT CTG ATT GTC AAT GGT TTC CTC GTG TTG ATC ACT TAC			816
143	Gly Val Pro Leu Leu Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr			
144	260	265	270	
145				
146	TTG CAG CAC ACG CAT CCT TCC CTG CCT CAC TAC GAT TCG TCC GAG TGG			864
147	Leu Gln His Thr His Pro Ser Leu Pro His Tyr Asp Ser Ser Glu Trp			
148	275	280	285	
149				
150	GAT TGG TTC AGG GGA GCT TTG GCT ACC GTT GAC AGA GAC TAC GGA ATC			912
151	Asp Trp Phe Arg Gly Ala Leu Ala Thr Val Asp Arg Asp Tyr Gly Ile			
152	290	295	300	

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/572,027DATE: 02/13/96  
TIME: 15:44:20

INPUT SET: S8732.raw

153 TTG AAC AAG GTC TTC CAC AAT ATT ACC GAC ACG CAC GTG GCC CAT CAT 960  
154 Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His  
155 305 310 315 320  
157 CCG TTC TCC ACG ATG CCG CAT TAT CAC GCG ATG GAA GCT ACC AAG GCG 1008  
158 Pro Phe Ser Thr Met Pro His Tyr His Ala Met Glu Ala Thr Lys Ala  
159 325 330 335  
161 ATA AAG CCG ATA CTG GGA GAG TAT TAT CAG TTC GAT GGG ACG CCG GTG 1056  
162 Ile Lys Pro Ile Leu Gly Glu Tyr Tyr Gln Phe Asp Gly Thr Pro Val  
163 340 345 350  
165 GTT AAG GCG ATG TGG AGG GAG GCG AAG GAG TGT ATC TAT GTG GAA CCG 1104  
166 Val Lys Ala Met Trp Arg Glu Ala Lys Glu Cys Ile Tyr Val Glu Pro  
167 355 360 365  
169 GAC AGG CAA GGT GAG AAG AAA GGT GTG TTC TGG TAC AAC AAT AAG TTA T 1153  
170 Asp Arg Gln Gly Glu Lys Lys Gly Val Phe Trp Tyr Asn Asn Lys Leu  
171 370 375 380  
173 GA 1155  
174  
175  
176  
177 (2) INFORMATION FOR SEQ ID NO:2:  
178  
179 (i) SEQUENCE CHARACTERISTICS:  
180 (A) LENGTH: 384 amino acids  
181 (B) TYPE: amino acid  
182 (D) TOPOLOGY: linear  
183  
184 (ii) MOLECULE TYPE: protein  
185  
186 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
187  
188 Met Gly Ala Gly Gly Arg Met Gln Val Ser Pro Pro Ser Lys Lys Ser 15  
189 1 5 10 15  
190  
191 Glu Thr Asp Thr Ile Lys Arg Val Pro Cys Glu Thr Pro Pro Phe Thr 30  
192 20 25 30  
193  
194 Val Gly Glu Leu Lys Lys Ala Ile Pro Pro His Cys Phe Lys Arg Ser 45  
195 35 40 45  
196  
197 Ile Pro Arg Ser Phe Ser Tyr Leu Ile Trp Asp Ile Ile Ile Ala Ser 60  
198 50 55 60  
199  
200 Cys Phe Tyr Tyr Xaa Ala Thr Thr Tyr Phe Pro Leu Leu Pro His Pro 80  
201 65 70 75 80  
202  
203 Leu Ser Tyr Phe Ala Trp Pro Leu Tyr Trp Ala Cys Gln Gly Cys Val 95  
204 85 90 95  
205

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/572,027

INPUT SET: S8732.raw

206 Leu Thr Gly Val Trp Val Ile Ala His Glu Cys Gly His His Ala Phe  
207 100 105 110  
208  
209 Ser Asp Tyr Gln Trp Leu Asp Asp Thr Val Gly Leu Ile Phe His Ser  
210 115 120 125  
211  
212 Phe Leu Leu Val Pro Tyr Phe Ser Trp Lys Tyr Ser His Arg Ser His  
213 130 135 140  
214  
215 His Ser Asn Thr Gly Ser Leu Glu Arg Asp Glu Val Phe Val Pro Lys  
216 145 150 155 160  
217  
218 Lys Lys Ser Asp Ile Lys Trp Tyr Gly Lys Tyr Leu Asn Asn Pro Leu  
219 165 170 175  
220  
221 Gly Arg Thr Val Met Leu Thr Val Gln Phe Thr Leu Gly Trp Pro Leu  
222 180 185 190  
223  
224 Tyr Leu Ala Phe Asn Val Ser Gly Arg Pro Tyr Asp Gly Gly Phe Arg  
225 195 200 205  
226  
227 Cys His Phe His Pro Asn Ala Pro Ile Tyr Asn Asp Arg Glu Arg Leu  
228 210 215 220  
229  
230 Gln Ile Tyr Ile Ser Asp Ala Gly Ile Leu Ala Val Cys Tyr Gly Leu  
231 225 230 235 240  
232  
233 Phe Arg Tyr Ala Ala Gly Gln Gly Val Ala Ser Met Val Cys Phe Tyr  
234 245 250 255  
235  
236 Gly Val Pro Leu Leu Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr  
237 260 265 270  
238  
239 Leu Gln His Thr His Pro Ser Leu Pro His Tyr Asp Ser Ser Glu Trp  
240 275 280 285  
241  
242 Asp Trp Phe Arg Gly Ala Leu Ala Thr Val Asp Arg Asp Tyr Gly Ile  
243 290 295 300  
244  
245 Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His  
246 305 310 315 320  
247  
248 Pro Phe Ser Thr Met Pro His Tyr His Ala Met Glu Ala Thr Lys Ala  
249 325 330 335  
250  
251 Ile Lys Pro Ile Leu Gly Glu Tyr Tyr Gln Phe Asp Gly Thr Pro Val  
252 340 345 350  
253  
254 Val Lys Ala Met Trp Arg Glu Ala Lys Glu Cys Ile Tyr Val Glu Pro  
255 355 360 365  
256  
257 Asp Arg Gln Gly Glu Lys Lys Gly Val Phe Trp Tyr Asn Asn Lys Leu  
258 370 375 380

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/572,027**

DATE: 02/13/96  
TIME: 15:44:25

***INPUT SET: S8732.raw***

Line	Error	Original Text
27	Wrong application Serial Number	(A) APPLICATION NUMBER: US 08/416,497